

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number  
**WO 2005/090966 A2**

(51) International Patent Classification<sup>7</sup>: **G01N 33/50**,  
C12Q 1/68, A61K 39/395, 48/00, C07K 14/705, 14/47

(21) International Application Number:  
PCT/EP2005/002529

(22) International Filing Date: 10 March 2005 (10.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
04007020.3 24 March 2004 (24.03.2004) EP

(71) Applicant (for all designated States except US): **BAYER  
HEALTHCARE AG** [DE/DE]; 51368 Leverkusen (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GOLZ, Stefan**  
[DE/DE]; Bückmannsmühle 46, 45326 Essen (DE).  
**BRÜGGEMEIER, Ulf** [DE/DE]; Leysiefen 20, 42799  
Leichlingen (DE). **GEERTS, Andreas** [DE/DE]; Schuck-  
ertstr. 29, 42113 Wuppertal (DE).

(74) Common Representative: **BAYER HEALTHCARE  
AG**; Law and Patents, Patents and Licensing, 51368  
Leverkusen (DE).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,  
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,  
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— without international search report and to be republished  
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: DIAGNOSTICS AND THERAPEUTICS FOR DISEASES ASSOCIATED WITH PEROXISOME PROLIFERATOR  
ACTIVATED RECEPTOR DELTA (PPARD)

(57) Abstract: The invention provides a human PPARD which is associated with the cardiovascular diseases, infections, cancer, dermatological diseases, gastroenterological diseases, inflammation, hematological diseases, metabolic diseases, muscle-skeleton diseases, neurological diseases, urological diseases and reproduction diseases. The invention also provides assays for the identification of compounds useful in the treatment or prevention of cardiovascular diseases, infections, cancer, dermatological diseases, gastroenterological diseases, inflammation, hematological diseases, metabolic diseases, muscle-skeleton diseases, neurological diseases, urological diseases and reproduction diseases. The invention also features compounds which bind to and/or activate or inhibit the activity of PPARD as well as pharmaceutical compositions comprising such compounds.



WO 2005/090966 A2